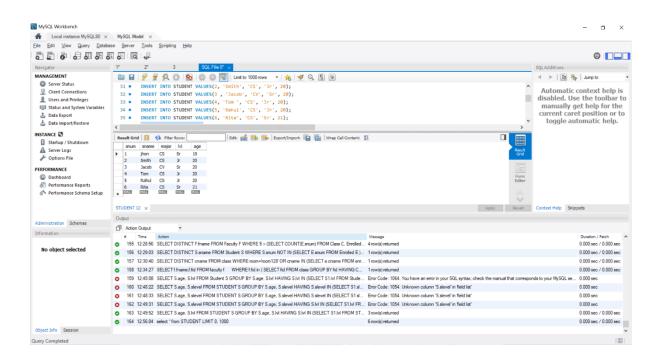
YASHWANTH KIRAN S

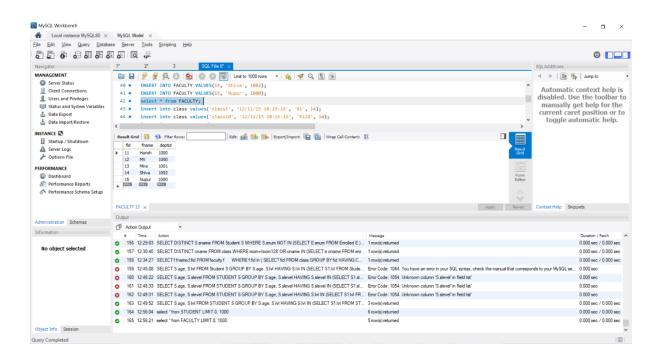
Student faculty

```
CREATE DATABASE student_faculty;
USE student_faculty;
CREATE TABLE student(
       snum INT,
       sname VARCHAR(10),
       major VARCHAR(2),
       IvI VARCHAR(2),
       age INT, primary key(snum));
CREATE TABLE faculty(
       fid INT, fname VARCHAR(20),
       deptid INT,
  PRIMARY KEY(fid));
CREATE TABLE class(
       cname VARCHAR(20),
       metts_at TIMESTAMP,
       room VARCHAR(10),
  fid INT,
       PRIMARY KEY(cname),
       FOREIGN KEY(fid) REFERENCES faculty(fid));
CREATE TABLE enrolled(
       snum INT,
       cname VARCHAR(20),
       PRIMARY KEY(snum,cname),
       FOREIGN KEY(snum) REFERENCES student(snum),
       FOREIGN KEY(cname) REFERENCES class(cname));
```

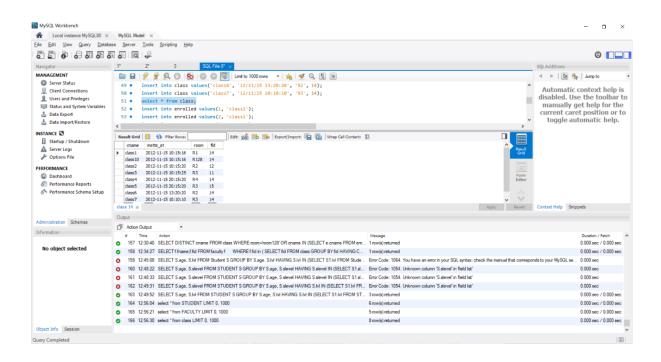
INSERT INTO STUDENT VALUES(1, 'jhon', 'CS', 'Sr', 19);
INSERT INTO STUDENT VALUES(2, 'Smith', 'CS', 'Jr', 20);
INSERT INTO STUDENT VALUES(3, 'Jacob', 'CV', 'Sr', 20);
INSERT INTO STUDENT VALUES(4, 'Tom', 'CS', 'Jr', 20);
INSERT INTO STUDENT VALUES(5, 'Rahul', 'CS', 'Jr', 20);
INSERT INTO STUDENT VALUES(6, 'Rita', 'CS', 'Sr', 21);
select * from STUDENT;



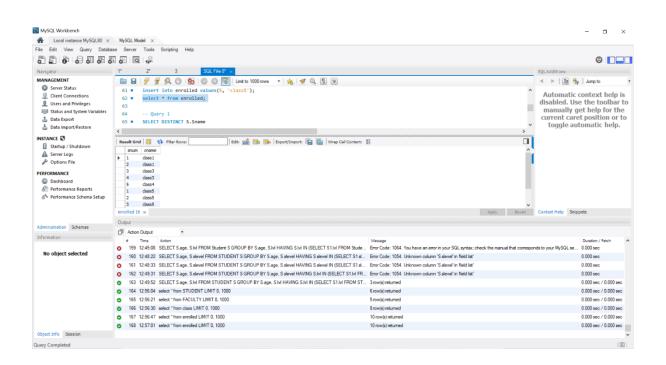
INSERT INTO FACULTY VALUES(11, 'Harish', 1000);
INSERT INTO FACULTY VALUES(12, 'MV', 1000);
INSERT INTO FACULTY VALUES(13, 'Mira', 1001);
INSERT INTO FACULTY VALUES(14, 'Shiva', 1002);
INSERT INTO FACULTY VALUES(15, 'Nupur', 1000);
select * from FACULTY;



```
insert into class values('class1', '12/11/15 10:15:16', 'R1', 14); insert into class values('class10', '12/11/15 10:15:16', 'R128', 14); insert into class values('class2', '12/11/15 10:15:20', 'R2', 12); insert into class values('class3', '12/11/15 10:15:25', 'R3', 11); insert into class values('class4', '12/11/15 20:15:20', 'R4', 14); insert into class values('class5', '12/11/15 20:15:20', 'R3', 15); insert into class values('class6', '12/11/15 13:20:20', 'R2', 14); insert into class values('class7', '12/11/15 10:10:10', 'R3', 14); select * from class;
```



```
insert into enrolled values(1, 'class1'); insert into enrolled values(2, 'class1'); insert into enrolled values(3, 'class3'); insert into enrolled values(4, 'class3'); insert into enrolled values(5, 'class4'); insert into enrolled values(1, 'class5'); insert into enrolled values(2, 'class5'); insert into enrolled values(3, 'class5'); insert into enrolled values(4, 'class5'); insert into enrolled values(5, 'class5'); insert into enrolled values(5, 'class5'); select * from enrolled;
```

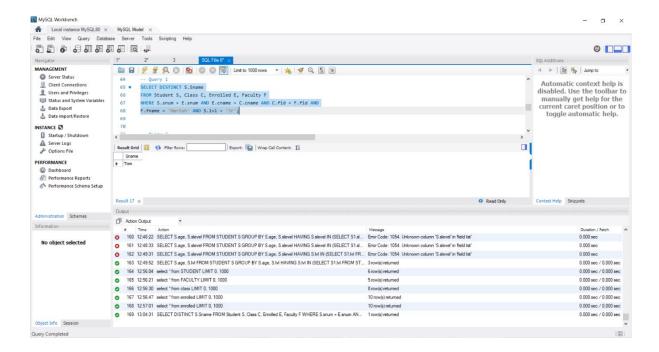


SELECT DISTINCT S.Sname

FROM Student S, Class C, Enrolled E, Faculty F

WHERE S.snum = E.snum AND E.cname = C.cname AND C.fid = F.fid AND

F.fname = 'Harish' AND S.lvl = 'Jr';



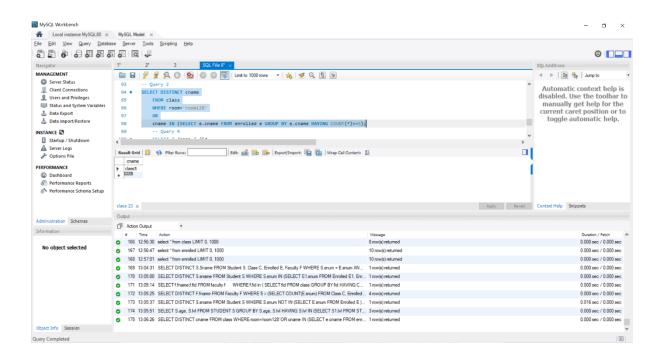
SELECT DISTINCT cname

FROM class

WHERE room='room128'

OR

cname IN (SELECT e.cname FROM enrolled e GROUP BY e.cname HAVING COUNT(*)>=5);



SELECT DISTINCT S.sname

FROM Student S

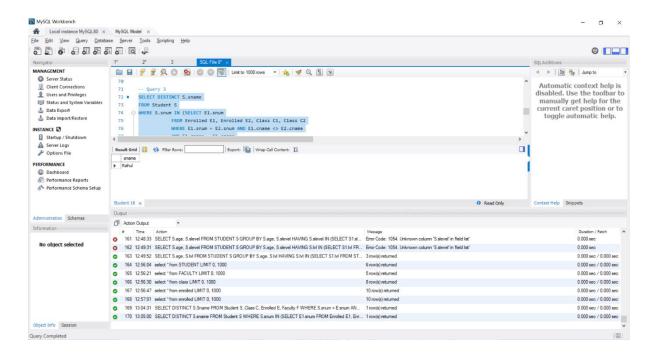
WHERE S.snum IN (SELECT E1.snum

FROM Enrolled E1, Enrolled E2, Class C1, Class C2

WHERE E1.snum = E2.snum AND E1.cname <> E2.cname

AND E1.cname = C1.cname

AND E2.cname = C2.cname AND C1.metts_at = C2.metts_at);

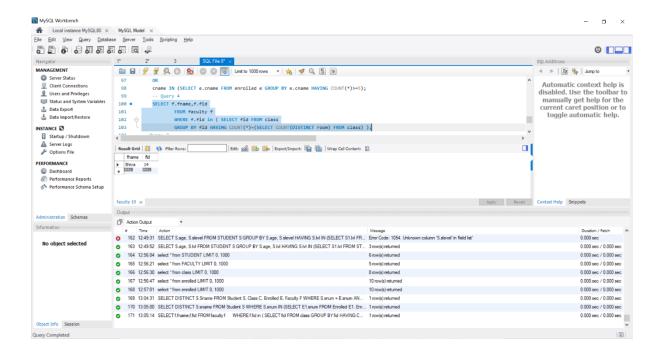


SELECT f.fname,f.fid

FROM faculty f

WHERE f.fid in (SELECT fid FROM class

GROUP BY fid HAVING COUNT(*)=(SELECT COUNT(DISTINCT room) FROM class));



SELECT DISTINCT F.fname

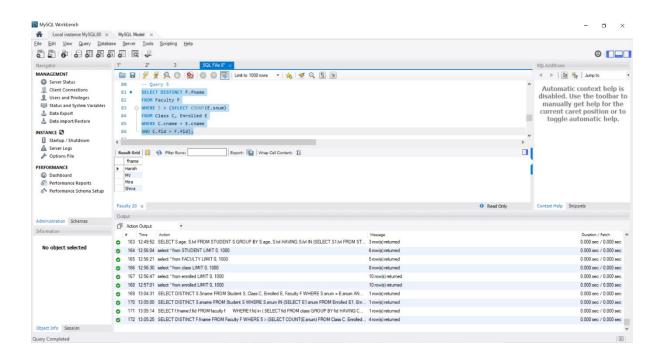
FROM Faculty F

WHERE 5 > (SELECT COUNT(E.snum)

FROM Class C, Enrolled E

WHERE C.cname = E.cname

AND C.fid = F.fid);

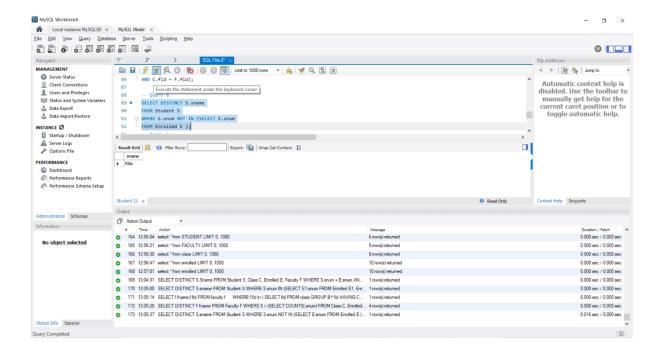


SELECT DISTINCT S.sname

FROM Student S

WHERE S.snum NOT IN (SELECT E.snum

FROM Enrolled E);



SELECT S.age, S.IvI

FROM STUDENT S

GROUP BY S.age, S.lvl

HAVING S.IvI IN (SELECT S1.IvI

FROM STUDENT S1

WHERE S1.age=S.age

GROUP BY S1.age, S1.lvl

HAVING COUNT(*) >= ALL (SELECT COUNT(*)

FROM STUDENT S2

WHERE S1.age=S2.age

GROUP BY S2.lvl, S2.age))

ORDER BY S.age;

